

DOCKET NO. IB-1330-1

In the Claims:

Please amend claim 52 as follows:

52. (Amended) A semiconductor nanocrystal compound, comprising:

C3 a) a water-soluble semiconductor nanocrystal comprising:

i) a core comprising a first semiconductor material; and

ii) a core-overcoating shell comprising a second semiconductor material; and

b) a linking agent linked to said water-soluble semiconductor nanocrystal and capable of linking to an affinity molecule.

Please add the following new claims:

C4 23 101. A luminescent semiconductor nanocrystal compound, comprising:

a) a water-soluble luminescent semiconductor nanocrystal comprising:

i) a core comprising a first semiconductor material; and

ii) a core-overcoating shell comprising a second semiconductor material; and

b) a linking agent linked to said water-soluble luminescent semiconductor nanocrystal and capable of linking to an affinity molecule.

DOCKET NO. IB-1330-1

²⁴
~~102~~. A luminescent semiconductor nanocrystal compound, comprising:

- a) a water-soluble luminescent semiconductor nanocrystal comprising:
 - i) a core comprising a first luminescent semiconductor nanocrystal material; and
 - ii) a core-overcoating shell comprising a second semiconductor material; and
- b) a linking agent linked to said water-soluble luminescent semiconductor nanocrystal and capable of linking to an affinity molecule.

²⁵
~~103~~. A luminescent semiconductor nanocrystal compound, comprising:

- C4
- a) a water-soluble luminescent semiconductor nanocrystal comprising:
 - i) a core comprising a first semiconductor material; and
 - ii) a core-overcoating shell comprising a second luminescent semiconductor nanocrystal material; and
 - b) a linking agent linked to said water-soluble luminescent semiconductor nanocrystal and capable of linking to an affinity molecule.

DOCKET NO. IB-1330-1

26
104

A luminescent semiconductor nanocrystal compound, comprising:

a) a water-soluble luminescent semiconductor nanocrystal comprising:

- C4
- i) a core comprising a first luminescent semiconductor nanocrystal material; and
 - ii) a core-overcoating shell comprising a second luminescent semiconductor nanocrystal material; and

b) a linking agent linked to said water-soluble luminescent semiconductor nanocrystal and capable of linking to an affinity molecule.

REMARKS

Cancel 74-100-?

Claim 52 has been amended, and new claims 101-104 have been added. Claims 52-73 and 101-104 are now in the application. Claim 52 has been amended to cancel the word "luminescent" from the preamble of the claim in response to a 35 U.S.C. 112, second paragraph rejection which stated that claim 52 was vague because the body of the claim fails to recite any compound with luminescent properties. New claims 101-104 have been added to place the word "luminescent" in the body of the claim in response to the same 35 U.S.C. 112, second paragraph rejection. The addition of new claims 101-104 was discussed by telephone with Examiner Chin on November 1, 2001.

The Office Action indicated that claim 52 would be allowable if rewritten or amended to overcome the rejection under 35 U.S.C. 112, second paragraph. The Office Action further states that claims 53-73 are objected to as dependent upon a rejected claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and